User Manual

For MAC

A3 Scanner

with

The TWAIN Driver (For Macintosh)

English

User Manual

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Setting Up the Scanner

This chapter covers the scanner installation and has the following topics:

- System Requirements
- Unpacking the scanner
- Package contents
- The scanner parts
- Unlocking and locking the scanner
- Installing the scanner
- Installing TWAIN

System Requirements

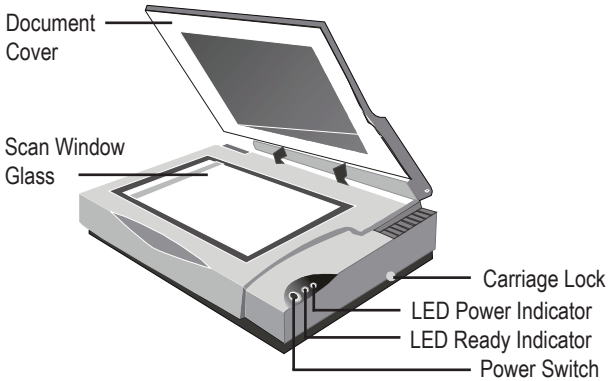
The scanner and the bundled software comply with the TWAIN protocol for the Macintosh platform. For the scanner and scanner software to perform suitably to task, you should at least have:

- Mac OS X 10.4 to 10.6
- Available USB port
- 24-bit video card or higher
- CD-ROM or DVD-ROM driver
- At least 64 MB RAM
- 32 MB available hard disk space for software installation

Unpacking the Scanner

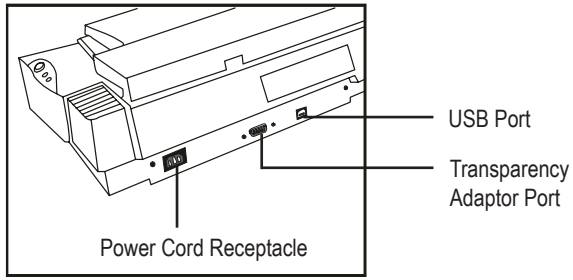
Carefully unpack the contents of the scanner package.
Inspect the items closely and if you find any item damaged or missing, please contact your Service Center. Also, save the box and packing material for in case you have to ship the scanner later.

The Scanner Parts



- **Document Cover**
  The document cover holds the document in place during scanning. It can be raised when scanning objects such as books.
- **Scan Window Glass**
  The scan window glass is where you lay down and position documents for scanning. Alignment marks and rulers are printed on the borders to help you position documents.
- **Carriage Lock**
  The carriage lock prevents the scanner's internal mechanism from moving during shipment. Unlock the scanner before using and re-lock it when shipping the scanner.
- **LED Power Indicator**
  When you turn on the scanner, the LED power indicator flashes momentarily and then remains lit.

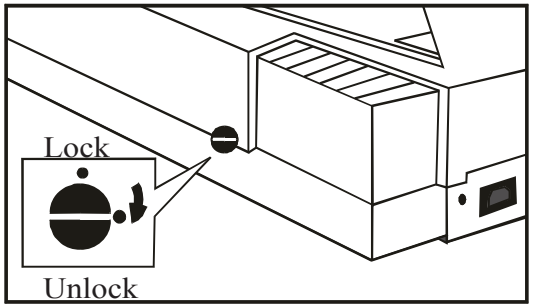
- **LED Ready Indicator**
  When scanning or warming up, the LED ready indicator will keep flashing. When the scanner is available for scanning, the LED ready indicator will remain lit.
- **Power Switch**
  Powers ON/OFF electrical power.



- **USB Port**
  The Universal Serial Bus Port on the rear panel are true plug-and-play serial ports for attaching your scanner to your computer.
- **Transparency Adapter Port**
  This port is for connecting an optional transparency adapter.
- **Power Cord Receptacle**
  Connect the scanner Power Cord to the Receptacle. This is used for your scanner's power supply.

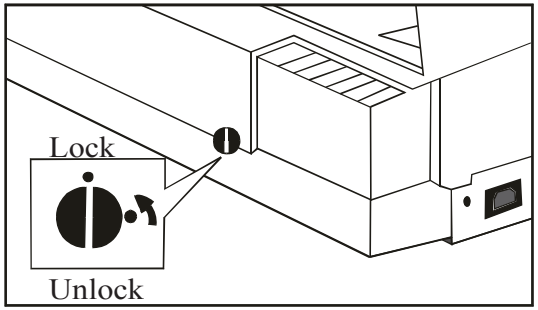
Unlocking the Scanner

In the rear of the scanner is a carriage lock that protects the scanning mechanism during shipping. To prevent causing damage to the scanner, you should unlock the carriage before operating the unit. As shown in the illustration, push the carriage lock up to release the carriage.



Locking the Scanner

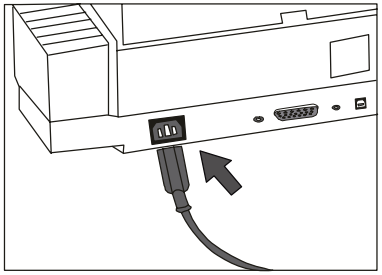
In case you need to ship the scanner once afterinstallation, be sure to lock the carriage.
Failing to do so may cause damage to the unit's scanning mechanism. To lock the scanner, first select Start, Programs, A3 scanner, "Scanner Lock". After successfully running the program, and the carriage has stopped moving, you can now lock the scanner by pushing the carriage lock up as shown in the illustration.



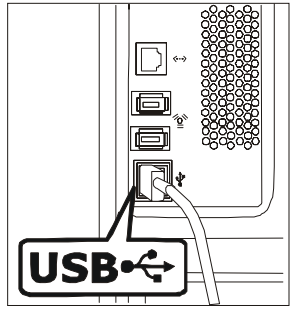
Installing the Scanner to a Macintosh

Refer to the following illustration and steps to connect your scanner:

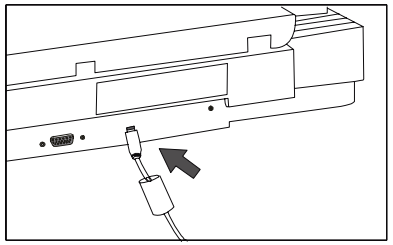
1. Connect the power adapter to the scanner and plug it into an appropriate power outlet.



2. With the power to your computer on, connect the scanner's USB cable to the USB port of your computer.



3. Connect the other end of the scanner's USB cable to the scanner's USB port.



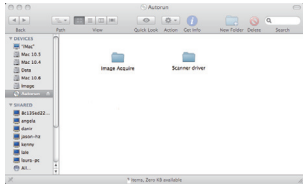
Upon connecting the USB cable, the system would automatically detect your scanner and update your system configuration.

Installing the Scanner Driver

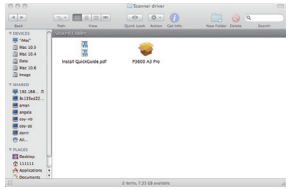
Turn on your Macintosh and start to install the Scanner Driver as following.

1. Insert the Scanner CD into your CD-ROM drive, and you will see the files as **Figure 1**.

Note: If the driver is downloaded from the website, extract the compressed file using any extraction tool such as The Unarchiver on Mac.



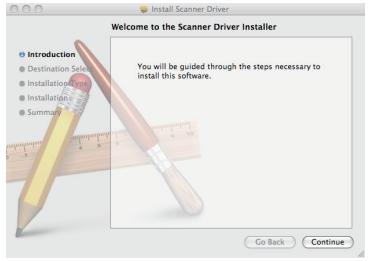
(Figure 1)



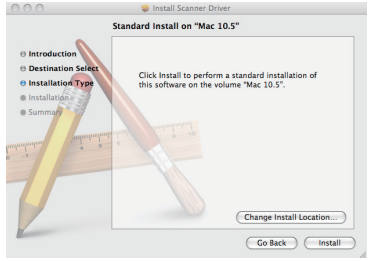
(Figure 2)

2. Double- click "**P3600 A3 Pro**" in **(Figure 2)**.

3. When you see the following screen, please click "**continue**".



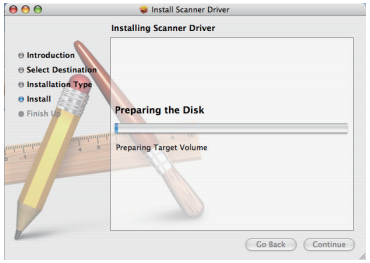
4. You can specify the location of the installation by clicking "**Change Install Location...**".



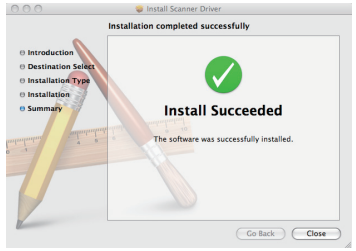
5. Type your MAC's user name and password in following dialog box and click "OK".

- If you did not set a password for your MAC, leave the field blank and then press "OK" to continue.

6. The driver is now being installed.



7. After the installation is complete, click "**Close**" to exit the installation.



Scanning Tutorial

Power Up the Scanner

1. First, power up the scanner by pushing the power button.

The LED power indicator on the front panel of the scanner lights up and flashes for about a minute and then remains lit, signifying that the scanner is ready.

2. Power up the computer and wait until the computer finishes booting.

Position the Document

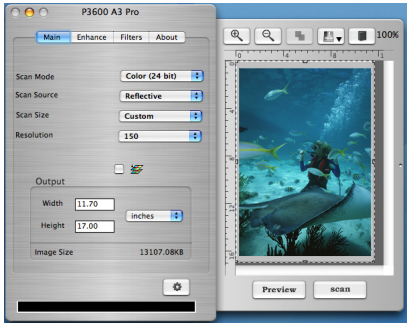
For the best possible image scans, it is important that you position your documents correctly and carefully. For this tutorial, use a paper-based document such as a color photograph. Procedures for document positioning are as follows:

1. Lift the scanner document cover.
2. Place the document face down on the glass and in the upper center corner.
3. Slowly lower the scanner document cover, making sure the document remains in position.

Acquire the TWAIN Driver

The TWAIN driver is the scanning module provided with your scanner. It is easily accessed from within the bundled scanner software or from within any TWAIN-compliant program. Before you start with the steps below, be sure you have installed and configured the bundled scanner software. Refer to *Chapter 1* for details.

1. Turn on your Macintosh computer.
2. Run the host TWAIN-compliant software (e.g. Photoshop)
3. Call up the TWAIN Data Source by selecting **Acquire** from the **File** menu. (In some programs, the **Acquire** command will appear in a submenu under the **Import** command.) The TWAIN dialog box will appear in a submenu under the **Import** command.

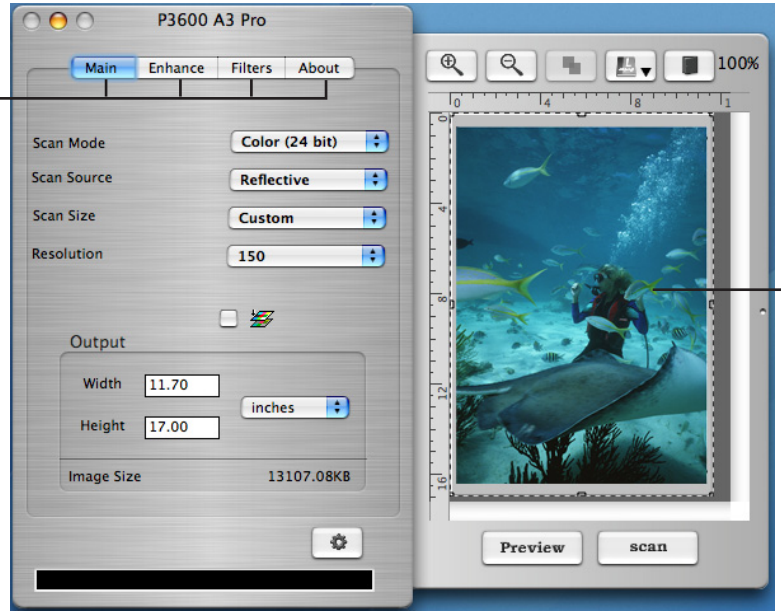


The TWAIN dialog box contains control settings, which you must set prior to scanning a document. The basic steps to scan a document are:

1. Prescan the document.
2. Set the desired image area to be scanned.
3. Select the scan source.
4. Select the desired scan mode.
5. Select the desired resolution.
6. Click on the **Scan** button.

The TWAIN Dialog Box

The TWAIN dialog box is divided into two sections: the left section where most of the control settings are located, and the right section, which is the Preview Window.



Folders
Contains defferent conrol settings.

Preview Window
Used for viewing the prescan image and selecting the final scan area

The Main Folder

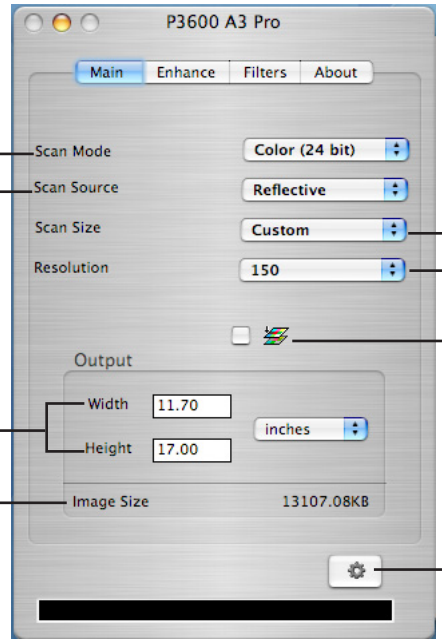
The main folder contains the control settings needed for specifying the scanning parameters such as scan mode, resolution, etc.

Scan Mode
Sets the scanner to read color, grayscale, lineart, etc.

Scan Source
Sets the media type of the document to be scanned,

Width and Height
Changes the dimensions of the final output

Image Size
Displays the amount of computer space needed to display or save the selected image area.



Scan Size
Refers to the size of the image or document that you area about to scan.

Resolution
Sets the resolution in dots per inch (dpi).

Color Matching Control
Color Matching allows the scanner to more accurately reflect the actual colors of the original image.

Reset Button
Returns settings to their default values.

The Enhancement Folder

The Enhancement folder contains preprocessing controls you can apply to the image before making your final scan.

Thumbnails

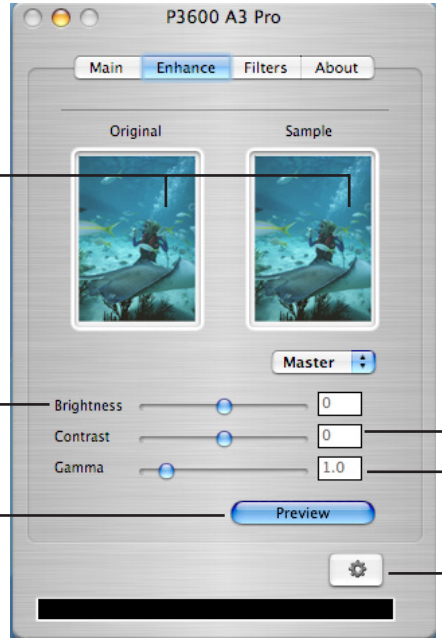
Are used to see the effects of any changes in the control settings.

Brightness Control

Allows you to adjust the overall amount of light in the image through a range of values (–127 ~0~+127).

Previous Button

Sets settings to previous values.



Contrast Control

The Contrast Control allows you to adjust the overall amount of black areas or white areas in the image through a range of values (–127~0~+127).

Gamma Control

Adjusts the brightness level in the highlights, midtones, and shadows of the image. (0.1~7.9)

Reset Button

Returns settings to their default values.

The Filters Folder

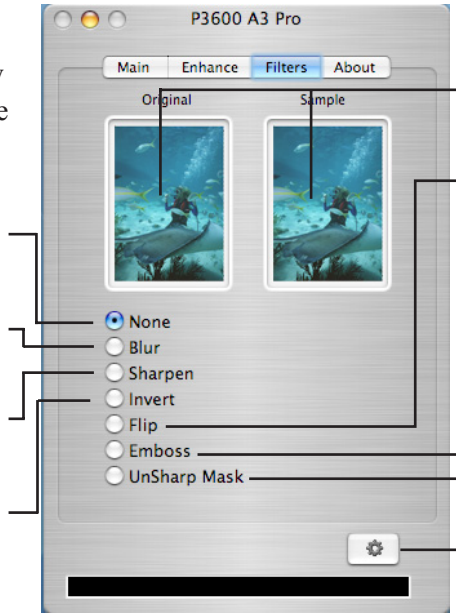
The Filters folder contains preprocessing controls that allow you to apply special effects to the image before making your final scan.

None
No filter is applied.

Blur or Blur More
Smooths or softens the image.

Sharpen or Sharpen More
Enhances the detail in the image.

Invert
Reverses an image to its negative or compliment.



Thumbnails
Are used to see the effects of the selected filter.

Flip
Creates a mirror image of the original.

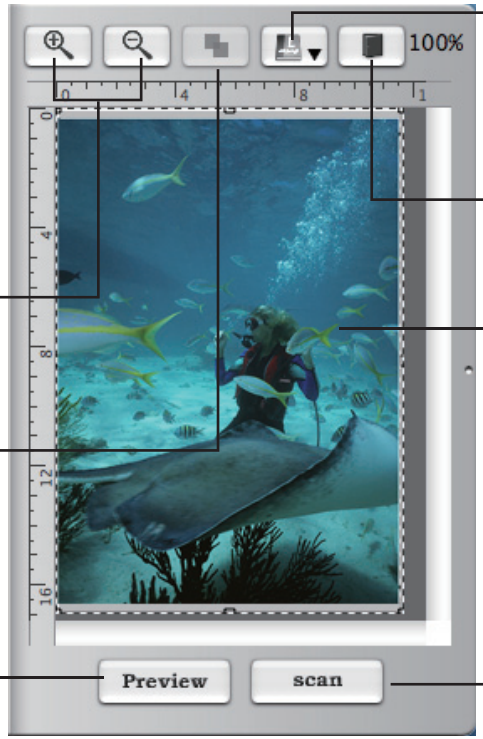
Emboss
Makes the elements in the image appear raised or sunken.

Unsharp Mask
Emphasizes shape edges and color boundaries.

Reset Button
Returns settings to their default values.

The Preview Window

The Preview Window is where you can view the prescan image. The first time you want to scan a document, it is better that you do a precan.



Zoom Tool Button
Allows you to enlarge/shrink an area of the image in the preview window

Batch Scan Button
Allows creation of up to 30 scan regions for Crop Frames for multiple scanning.

Preview Button
Allows you to see the effect of any changes made to the image prior to scanning.

Language Setting
Allows you to select the desired language that the dialog box will be displayed in.

Exit Button
Click to exit (or close) the TWAIN or Batch Scan Dialog boxes.

Crop Frame
Outlines the scan area or region that will be included in the final scan.

Scan Button
processes the pre-scanned image, and displays it in the host software (where you opened up the TWAIN dialog box).

Prescan the Image

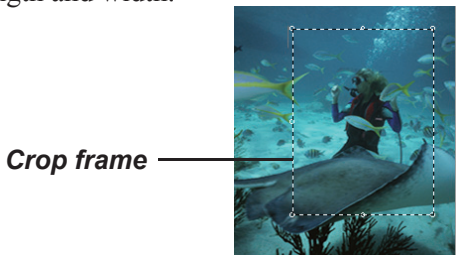
A Preview is a quick low-resolution scan of the entire original image. From this low-resolution scan you can get a clearer idea of the image area you want to include when you click Scan. To Preview, the steps are:

1. Place the document face down on the scan window glass.
2. Click the **Preview** button in the dialog box. After the scanner has scanned the document, the scanned image will appear in the Preview Window. From the Preview image, you can now set the exact image area you wish to include in your final scan.

Set Up the Scan Parameters

1. Set the desired image area to be scanned.

Use the Crop Frame in the Preview window to outline the image area you wish to scan. Click one of the sides or corners of the Crop Frame and drag it out or in to the desired length and width.



Only the area inside the Crop Frame will be included in the resulting scanned image when you click Scan. The size information at the bottom of the dialog box is automatically updated when the Crop Frame is re-sized.

2. Select the scan source.

Since we are going to scan a color photograph, choose Reflective.

Reflective:

when scanning paper-based documents such as photographs or text (magazines, books, or images).

Negative/Positive:
when scanning positive film or transparencies, or Negative as a source for scanning negative film.(usually works with transparency adapter)

3. Select the desired scan mode.

The Scan Mode determines how the scanner will read the image.

- 24-Bit Color captures images in 16.7 million colors
- Gray captures images in grayscale
- Text/Line Art is used for text documents or black-and-white images

4. Select the desired resolution.
Resolution is a measure of how much image detail information the scanner is to capture in a scan. A higher resolution results to a sharper image but requires more disk space for file saving. For this session, set the resolution to 300 dpi.

Execute the Scan Command

When you are finished with the control settings, click on the Scan button. The scanner begins to scan the document and a message box appears on the screen displaying the progress of the scan. When the scan is finished, the image will be displayed in the main screen of the host software.

Scanner Features

The A3 scanner is especially designed for professional electronic publishers, graphic arts designers, multimedia developers, or anyone else who demands only the best scanning results. The A3 scanner recognizes over 68 billion colors and can capture subtle changes in color and depth rendering images that are more vibrant, clearer, and sharper.

With a true optical resolution of 1800 x 3600 dpi and a maximum resolution of 19200 x 19200 dpi (through interpolation), the A3 scanner offers a wide range of resolution to complement a variety of printers from black-and-white inkjet and laser printers to color inkjet, laser, and dye sublimation printers.

Scan Modes

The A3 scanner incorporates multiple scan modes and high resolutions. The A3 scanner's multiple scan modes can reproduce your documents into three types of images: 24-bit color images, gray-scale images, and line-art images. The choice of scan mode and image type depends on your output requirements and system configuration.

24-Bit Color

This scan mode captures 24 bits of color image information for every pixel in the screen image. Reproduce over 16.7 million colors. Impressive images for multimedia presentations, printed output, or autodemos can be obtained using this scan mode. When disk space is limited, use 24-bit color scan mode to capture color images.

Gray

This scan mode is for capturing fine details and shading in continuous-tone originals such as photographs.

Line Art

Images scanned in Text/Line Art have absolutely no shading, only black and white. This scan mode is best used with text images for OCR and graphics with only black and white areas.

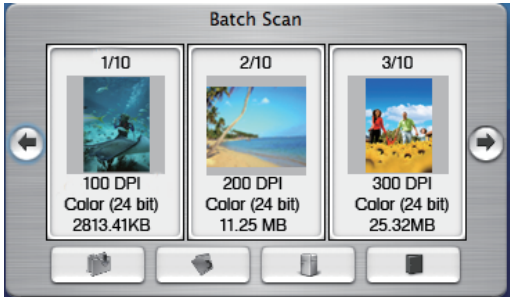
Using Batch Scan

Batch Scanning is an easy way to multi-scan any part of your document using different scan modes and resolutions. In batch scanning ,you can specify up to a maximum of 30 scan regions or you can scan a single region several times using different combinations of scan modes and resolutions.

To activate batch scanning, click on the **Batch Scan** button. This will bring up the Batch Scan dialog box.

The Batch Scan Dialog Box

The Batch Scan dialog box contains several controls that make batch scanning simple and easy to use. It will also display the number of batch jobs that you make when you create the scan regions.



New Batch Button

Click on this button to create a new scan region on the image in the Preview Window.

Copy Batch Button

Click on this button to duplicate a batch job. You can then specify different control settings for this particular batch job.

Delete Batch Button
Click on this button to delete the selected or highlighted batch job.

Exit Batch Button
Click on this button to cancel batch scan and exit the Batch Scan dialog box.

To do a batch scan, the steps are:

1. Click the **Batch Scan** button. The Batch Scan dialog box appears.

2. Create a scan region:

(a) Move the cursor inside the Preview Window.

(b) Reposition or resize the crop frame if necessary.

3. Set the desired scan mode and resolution for the current scan region.

4. Repeat steps 2 and 3 if you wish to create more scan regions. You can have up to 30 scan regions. If you want to duplicate the current scan region, simply click on the **Duplicate Batch** Button.

5. Click **Scan**. The scanner will begin to scan the scan regions one after the other.

For scanning multiple documents or images, Batch Scan is equipped with an auto crop function that is not available in the regular scanning mode. Batch Scan auto-detects the borders of the images or paper edges of the documents, allowing you the option of scanning any or all of these images/documents without having manually select, and scan them individually (as required in the regular mode.)

Appendix A: Specifications*

A

Scanner Type:	Color CCD Flatbed
Light Source:	Cold Cathode lamp
Color Mode:	true 48-bit/pixel
Gray Mode:	true 16-bit/pixel
Text/Line Art:	1-bit/pixel (2 levels)
Resolution Optical:	1800 dpi (H) x 3600 dpi (V)
Software Enhanced:	19200 dpi x 19200 dpi
Scan Area:	11.7” x 17” (297 mm x 431.8 mm)

Interface:	USB 2.0
Dimensions:	27.0” (L) x 17.3” (W) x 6.4” (H)
Power Consumption:	36W
Weight:	15.5 kg (34.21bs)
Support OS:	Mac OS X 10.4 to 10.6

Option

TA/scan area:	11.7” x 17” (297 mm x 431.8 mm)

Appendix B: Maintenance

B

Ensure that your flatbed scanner operates at optimum performance by observing the following:

- Cover the scanner when it's not in use to avoid dust contamination
- Avoid environments where the scanner would be exposed to direct sunlight (or any other source of excessive heat) for long periods of time
- Protect the scanner from potential liquid spills such as soda, coffee, tea, etc.
- Operate the scanner on a level, well-grounded work surface, free of excessive vibration
- Be careful to avoid scratching the glass when placing multi-page documents (bound by sharp staples or paper clips) on the scan window glass. Scratches on the glass will show up as unwanted marks in scanned images.
- Don't open the scanner case because there is danger of electrical shock and there are no customer-serviceable parts inside. For servicing needs, call your scanner dealer for assistance.

Cleaning Procedures

1. Power off the scanner and disconnect the power cord.
2. Gently wipe the scan window glass with a soft lint-free cloth and mild liquid detergent to remove fingerprints, smudges, or loose particles. Do not use a spray detergent as this may get inside the case and damage the unit's internal components.

3. Wipe off the detergent with a soft cloth damp with water.
4. Finally, dry the surface by wiping it with a clean soft cloth.

Appendix C: Troubleshooting

C

Determining Error Messages

When the scanner is turned on, it will automatically perform a series of self-diagnostic tests. The LED power indicator located on the scanner's front panel should tell you if there is something wrong with the unit. Upon power up, the LED ready indicator lights up and flashes for about a minute and then remains lit. The scanner lamp will also be on and will remain on until you power off the scanner.

LED Ready Indicator Messages

1. If the LED ready indicator light continues to flash beyond one minute, call Technical Support.
2. If the LED ready indicator remains lit, but the scanner lamp is dim, call Technical Support.

Other Troubleshooting

1. Check to make sure all cable connections are correct:

- The USB cable is firmly plugged into the scanner and the computer.
- The power cord is firmly connected to the scanner, plugged into an appropriate power outlet, and the power switch is turned on.